Annual Examination MATHEMAT	ics] [2018]
Section	
Multiple Choice Oues	tions (MCQ'S)
Choose the correct answer for each from the given options. tersection of two sets is empty always.	
tersection of two sets is	s empty always.
(a) Non – empty (b) Equivalent	
2. For all x,y, xy = xy, This is	
3. $\log_{x} \times \log_{a} = \frac{1}{2}$	1/110000
(a) 0 (b) 1	(c) -1 (d) Infinite
4. $\sqrt{x^2 + 2xy + y^2}$ is a / ane	expression.
(a) Rational (b) Irrational	(c) Polynomial (d) Monomial
5. Square roots(s) $x^2 + 2 + \frac{1}{x^2}$ is / are	
(a) $x + 1$ 1 1 1 1 1 1 1 1 1	1/21100000
(a) $x + -$	(D) = X - X
(c) Both (a) and (b)	(d) None of these
6. The graph of these equation $x+y=5$ and I_2 intersecting each other at point	and $x+2y=9$ represents thes
(a) $(4,1)$ (b) $(-4,-1)$	(c) (1, 4) (d) (3, 3) (f)
7. If $A = \begin{bmatrix} 5 & 6 \\ 3 & -1 \end{bmatrix}$, then $A' = \begin{bmatrix} 5 & 6 \\ 3 & -1 \end{bmatrix}$	TONE COURT
$A = \begin{bmatrix} 3 & -1 \end{bmatrix}, \text{ then } A = \begin{bmatrix} 3 & -1 \end{bmatrix}$	HIM
(a) $\begin{bmatrix} -1 & 6 \\ -1 & 6 \end{bmatrix}$ (b) $\begin{bmatrix} -1 & 6 \\ 6 & 5 \end{bmatrix}$ 8. When equation	(c) $\begin{bmatrix} 5 & 3 \\ 6 & -1 \end{bmatrix}$ (d) $\begin{bmatrix} 3 & -1 \\ 5 & 6 \end{bmatrix}$
CAMP 0 0 0 5 5	
8. If $b = b$ and $c + x = d$ then equation from x.	will be the relation fre
(a) $a+c=b+d$ (c) $a-c=b-d$	(b) $a+b=c+d$
. 10 4 , 5 3 4 C (1) (4 7) 1	보다 공항 가는데 다른 아들은 하는 것으로 나를 하고 있는데 없는데 없는데 그렇게 되었다.
9 is a commensurable rational state of the state o	
(a) $\sqrt{4}:\sqrt{36}$ (b) $\sqrt{9}:\sqrt{2}$ 10. Median of the data 12, 10, 11, 13, 9, 19	
(a) 11.5 (b) 12.5	
11. If the vertex and one arm are common of	of two angles then they are called
(a) Adjacent Angles	(b) Supplementary Angles
(c) Complementary Angles	(d) Congruent Angles
12 Chords (s) can be draw in a (a) Only One (b) Infinite	
13. In two similar triangles are c	
(a) Angles (b) Areas	(c) Medians (d) All of these
14. A circle which touches one side of a triangle externally and two sides product internally is called	
(a) Circum - Circle (b) In-centre 15. Opposite angles of a cyclic quadrilateral	(c) In Circle (d) Escribed Circle
(a) Always equal	(b) Complementary
(c) Supplementary	(d) Always right angles
16. The point through which the medians	s of a triangle pass is called
(a) Centroid (b) In-centre	(c)Circum centre(d)None of these
17. $xy + xy - 2 = $ (a) $(xy-1)(xy+1)$	(b) $(xy-1)(xy-1)$
(c) $(xy-2)(xy+1)$	(d) $(xy-1)(xy-1)$ (d) $(xy-1)(xy+2)$
18. $cosec(mB) = $	(-) (-) -)(-) -)
(a) $\sin(90 - mB)$	(b) $\cos(90 - mB)$
(c) $\sec(90 - mB)$	(d) $\tan(90 - mB)$
19. $x'-x'+2 = $	(b) (-1) (10 o)
(a) $(x-1)(x+2x+2)$ (c) $(x+1)(x+2x-2)$	(b) $(x+1)(x'-2x-2)$ (d) $(x+1)(x'-2x+2)$
(0)(x+1)(x+2x-2)	$(\alpha)(x+1)(x-2x+2)$
$\sqrt{1-\cos^2 x}$	1/21 (1) [1]
$20. \frac{\sqrt{1 + \cos x}}{\cos x} = \frac{1}{1 + \cos x}$	
(a) $\cot x$ (b) $\sec x$	(c) $\tan x$ (d) $\sin x$